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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/736,052	12/15/2003	Adrian P. Stephens	884.B49US1	4028	
	7590 01/31/200 N, LUNDBERG & WC	EXAM	EXAMINER		
P.O. BOX 2938	, ·	QURESHI,	QURESHI, AFSAR M		
MINNEAPOLIS, MN 55402			ART UNIT	PAPER NUMBER	
			2616	<del>"</del>	
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			01/31/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

٠٠٠٠		Application No		Applicant(s)	<del></del>			
Office Action Summary		10/736,052		STEPHENS, ADRIAN P.				
		Examiner		Art Unit				
		Afsar M. Quresh	i	2616				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DA SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period varie to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS CO 36(a). In no event, how will apply and will expire c, cause the application	OMMUNICATION vever, may a reply be tim vever, six (6) MONTHS from the become ABANDONE	I. ely filed the mailing date of this co O (35 U.S.C. § 133).				
Status								
1)⊠	Responsive to communication(s) filed on 15 De	ecember 2003.						
2a) <u></u> ☐	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.							
3)[	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under E	Ex parte Quayle,	1935 C.D. 11, 45	63 O.G. 213.				
Disposit	ion of Claims							
5)□ 6)⊠ 7)□	Claim(s) 1-22 is/are pending in the application.  4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed.  Claim(s) 1-22 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/o	wn from conside						
Applicat	ion Papers							
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine	epted or b) ob drawing(s) be held tion is required if the	d in abeyance. See ne drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 C				
Priority	under 35 U.S.C. § 119	•						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
2)  Noti 3)  Info	nt(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date 10/24/2005.	4) _ 5) _ 6) _	Interview Summary Paper No(s)/Mail Da Notice of Informal P Other:	ate				

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claims 1-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over EP0928084 A2 (MITSUBISHI DENKI KABUSHIKI KAISHA (Inventors: Poon et al.) ('Poon' hereinafter) in view of Kobayashi, US 2004/0218627 A1.

As to claims 1-3, 11, 15 and 19. Poon discloses transmitter side 200 and receiver side 202 (fig. 12) wherein the receiver detects the modulation type (*selected data type*) of the incoming signal and formats (*training thee receiver*) into a state capable of interpreting the selected data type. This is done by a host processor 74 (*access point, see [0038]*) on a priori knowledge of the modulation type (*determining if the receiver maintains a state capable of interpreting the selected data type*) (see col. 3, lines 1-10, col. 5, lines 10-18 and col. 8, lines 9-12). In another embodiment, on the transmission side, a header word is inserted (*self definition information*) where a modulation type flag is used on the transmission which are detected at the receiver side and configures the demodulation logic circuit (*receiver does not maintain a state* 

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capable of interpreting the selected data type). (col. 3, lines 3035; col. 4, lines 42-47; col. 9, lines 10-20 and col. 11, lines 39-56).

As to claims 4-7. Poon discloses stripping off the header and providing flags in the header (see col. 12, [0061] fig. 12) each modulation type is predetermined between transmitter and receiver so that a receiver can enter the state where it can interpret the selected data type.

As to claim 8. Poon does not specifically disclose utilizing 802.11 protocols. However, 802.11 protocols are known and old (ANSI/IEEE 1999), Examiner takes Official Notice. For example, in 802.11 protocols, once a packet is correctly received by a receiver, it must remain off for an entire frame which causes stations that are outside an intended transmission range (*prohibits communication with a transmitter other than a training transmitter*) to remain idle during frame transmission.

As to claims 9-10, 17, 18, 22. Poon discloses self definition information, such as modulations discussed above, is included in the packet header (see col. 11, [0053]) wherein the data is sent in series of modulated packets.

As to claim 12-13, Poon discloses utilizing a program or software, in a computer, for sending a selected data with or without self definition information as discussed above (see col. 12, lines 5-12).

As to claims 16, 21. Poon discloses configuration 'RAM 80"(fig. 5A), receive side, that specifies the appropriate demodulation mode to be downloaded (see col. 9, [0038], lines 16-20).

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As to claim 20. Poon does not specifically disclose an omnidirectional antenna, however, Poon discloses that the universal modem which is software reconfigurable has an input either a terrestrial signal or a *satellite signal* each with its own unique modulation format (see col. 7, [0031]). One of ordinary skill in the art, at the time of invention would readily realize that the same invention can be modified to receive satellite signals via an antenna (see col. 15, lines [0080]).

As to claim 14. Poon does not specifically disclose training session as claimed herein.

However, Kobayashi discloses performing a training session by sending a training pattern over a link to the receiver (see page 10, [0107]) where a processor controls the release of the training session (see fig. 25, page 9, [0101].

It would have been obvious to one of ordinary skill in the art, at the time of instant invention, to be able to integrate process for performing training session, taught by Kobayashi to establish a stable link prior to communication between said transmitter and the trained receiver.

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Jasper et al. (US 5,533,004); Tzannes et al. WO 01/20864 (AWARE, INC.); Yukitsuna Furuya (US 5,557,087).

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3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Afsar M. Qureshi whose telephone number is (571) 272 3178. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Field Lynn can be reached on (571) 272 2092. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AFSAR QURESHI PRIMARY EXAMINER

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1/24/2008